## OD-77160 /80

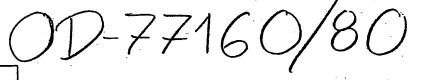
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77160 C/44 E17 A41 G02 FARB 03.04.79	A(1-D10) E(5-G8, 5-G9A, 7-A4, 10-E2D, 10-E2E, 10-G2A) G(2-A2C,
BAYER AG 03.04.79-DT-913218 (23.10.80) C07c-67/08 C07c-69/54 C07d-	2-A4A) N(4-C). 1 5
1319/06 Prepn. of (meth)acrylic acid ester(s) - by esterification of (meth)acrylic acid with poly:hydric alcohol(s) in presence of phosphite ester and a phenol	moulding and casting compsns., etc.  DETAILS (III) is e.g.  OR  where R, R' and R' are
In the prodn. of (meth)acrylic acid esters by esterification of (meth)acrylic acid (I) with an alcohol(s) (II) (from 2- to 4-hydric satd. aliphatic alcohols and their oxyethylation prods. or 1-3 C alkyl mono- or disubstd. 5-hydroxymethyldioxan-1,3), the reaction is carried out under azeotropic conditions in the presence of (a) a (cyclo)aliphatic and/or aromatic hydrocarbon with a b.pt. of 40-120°C; (b) an esterification catalyst, (c) polymsn. inhibitor, (d) 0.001-5 wt.% (w.r.t. I+II) of an organic ester of phosphorous acid (III) and (e) 0.01-0.3 wt.% (w.r.t. I + II) of a mono- or	1-8 C alkyl, 2-4 C hydroy- alkyl, 2-4 C haloalkyl, aryl OR'' (esp. phenyl) or 1-4 C alkyl- substd. aryl. Pref. 10-60% of the (III) is added before azeotropic esterification, and the remainder is added continuously during the esterification, e.g. with a carrier gas such as air or N.  EXAMPLE  11  12  13  15  16  16  17  16  17  18  18  19  19  19  19  19  19  19  19
dihydric phenol (IV).  ADVANTAGE/USE  High yields of the esters are obtd. without polymer formation of discolouration and without serious redn. in reactivity of the resulting monomer. The esters have good storage stability, low acid value and little inherent smell and are useful raw materials for electron beam curing lacquers, UV curing printing inks, coating compsns.	Cyclohexane, 0.073 kg conc. H <sub>2</sub> SO <sub>4</sub> , 0.000 kg triethylmos- phite (V) and 0.004 kg 2,5-di-tert.butylhydroquinone (VI) was subjected to azeotropic esterification for 17 hrs. at
cyclohexane distilled off under vacuum, 50 1/h air satd. with (V) was then passed through at a sump temp. of 105°C and a press, of 50 mbar. The prod, was filtered to give a monomer prod, with an acid value of 2.5, an iodine colour value of 0-1 and a viscosity of 120 mPas.(19pp513)	15
CH3- H- CH2=C-C-	-0-CHE (CHE)0-2,4 CH-0- (CH2-CH2-0)+
<u>A</u>	-0-CH2 CH-0- CH-0- -0-CH2-C-CH2-0- DT2913218
p-o- haloalkyl -arylH alkyl -arylH alkyl	CH20- -CH3
3	
Referate aus CENTRAL PATENTS INDEX von DERWENT	

KORRIGIERT

**BEMERKUNGEN** 

BLATTZAHL

GREMAS - Zusatzschema



Bearbeiter

17-02

Bemerkungen

Blatt-Nr.

Blattzahl

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